

WEST Search History

DATE: Thursday, April 12, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L85	L84 and ((bore) same (parallel))	1
<input type="checkbox"/>	L84	L83 and ((open or opening or opened or gap or space or entrance or entry or access or insert\$4) same (bore or lower or bottom or below))	11
<input type="checkbox"/>	L83	L82 and (((solenoid\$4 or saddle) with (coil or winding or probe or antenna)) same (perpendicular\$3 or transverse or orthogonal\$4))	12
<input type="checkbox"/>	L82	L81 and (((solenoid\$4 or saddle) same ((feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4) with (cable or channel\$3 or "line" or tub\$3)))) same ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) same (belt or "line")))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous)))	15
<input type="checkbox"/>	L81	((324/300-322.ccls.) or (600/407-435.ccls.))	17745
<input type="checkbox"/>	L80	L79 and ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) with (belt or "line")))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous) with (volume or "ml"))	2
<input type="checkbox"/>	L79	L75 and (plug or socket\$4 or stopper)	6
<input type="checkbox"/>	L78	L77 and (((solenoid\$4 or saddle) same ((feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4) with (cable or channel\$3 or "line" or tub\$3)))) same ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) same (belt or "line")))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous)))	1
<input type="checkbox"/>	L77	L76 and ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) same (belt or "line")))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous))	6
<input type="checkbox"/>	L76	L75 and ((solenoid\$4 or saddle) same ((feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4) with (cable or channel\$3 or "line" or tub\$3))))	9
<input type="checkbox"/>	L75	L74 and (((solenoid\$4 or saddle) with (coil or winding or probe or antenna)) same (perpendicular\$3 or transverse or orthogonal\$4))	15
<input type="checkbox"/>	L74	L73 and (solenoid\$4 or saddle)	143
<input type="checkbox"/>	L73	L72 and (perpendicular\$3 or transverse or orthogonal\$4)	453

<input type="checkbox"/>	L72	L71 and (parallel)	539
<input type="checkbox"/>	L71	L70 and (bore)	677
<input type="checkbox"/>	L70	L60 and ((open or opening or opened or gap or space or entrance or entry or access or insert\$4) same (bore or lower or bottom or below))	2359
<input type="checkbox"/>	L69	L46 and ((open or opening or opened or gap or space or entrance or entry or access or insert\$4) same (bore or lower or bottom or below))	1
<input type="checkbox"/>	L68	L61 and l46	0
<input type="checkbox"/>	L67	L66 and (((solenoid\$4 or saddle) with (coil or winding or probe or antenna)) same (perpendicular\$3 or transverse or orthogonal\$4))	11
<input type="checkbox"/>	L66	L65 and ((solenoid\$4 or saddle) with (coil or winding or probe or antenna))	49
<input type="checkbox"/>	L65	L64 and (solenoid\$4 or saddle)	127
<input type="checkbox"/>	L64	L63 and (perpendicular\$3 or transverse or orthogonal\$4)	376
<input type="checkbox"/>	L63	L62 and (parallel)	429
<input type="checkbox"/>	L62	L61 and (bore)	511
<input type="checkbox"/>	L61	L60 and ((open or opening or opened or gap or space or entrance or entry or access) same (lower or bottom or below))	1981
<input type="checkbox"/>	L60	L4 and ((feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4) with (cable or channel\$3 or "line" or tub\$3))	3395
<input type="checkbox"/>	L59	L58 and ((solenoid\$4 or saddle) with (coil or winding or probe or antenna))	20
<input type="checkbox"/>	L58	L57 and (plug with socket\$4)	98
<input type="checkbox"/>	L57	L56 and ((solenoid\$4 or saddle or coil or winding or probe or antenna) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable))	2385
<input type="checkbox"/>	L56	L1 and (plug or socket\$4)	17237
<input type="checkbox"/>	L55	5146166	16
		<i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L54	('5146166')![pn]	1
		<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L53	('3911355' '4088944' '4511841' '4581583' '4859949' '5146166' '5302900' '5517856' '6563317' '20020135372' '20020196022')![pn]	11
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L52	L48 and (warden.in.)	1
<input type="checkbox"/>	L51	L50 and ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) with (belt or "line"))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous) with (volume or "ml"))	10
<input type="checkbox"/>	L50	L49 and ((measur\$4 or measurement or examin\$4 or examination or investigation or interest or analysis or analyz\$4 or region or area or zone) with (volume or "ml"))	102
		L48 and ((solenoid\$4 or saddle or coil or winding or probe or antenna) with	

<input type="checkbox"/>	L49	(exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable))	205
<input type="checkbox"/>	L48	fetzner	346
<input type="checkbox"/>	L47	L42 and (fetzner)	4
<input type="checkbox"/>	L46	L45 and ((solenoid\$4 or saddle) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable))	1
<input type="checkbox"/>	L45	L44 and (((measur\$4 or measurement or examin\$4 or examination or investigation or interest or analysis or analyz\$4 or region or area or zone) with (volume or "ml"))) with (solenoid\$4 or saddle))	3
<input type="checkbox"/>	L44	L43 and ((measur\$4 or measurement or examin\$4 or examination or investigation or interest or analysis or analyz\$4 or region or area or zone) with (volume or "ml"))	48
<input type="checkbox"/>	L43	L42 and (solenoid\$4 or saddle)	58
<input type="checkbox"/>	L42	L41 and (measur\$4 or measurement or examin\$4 or examination or investigation or interest or analysis or analyz\$4 or region or area or zone)	674
<input type="checkbox"/>	L41	L40 and ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) with (belt or "line")))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous) with (volume or "ml"))	675
<input type="checkbox"/>	L40	L39 and (volume or "ml")	7403
<input type="checkbox"/>	L39	L38 and (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable)	8105
<input type="checkbox"/>	L38	L37 and ((automatic\$4 or automat\$3) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous))	8128
<input type="checkbox"/>	L37	L36 and (automatic\$4 or automat\$3)	22106
<input type="checkbox"/>	L36	L35 and (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous)	51080
<input type="checkbox"/>	L35	L2 and (convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) with (belt or "line")))	52013
<input type="checkbox"/>	L34	L33 and ((solenoid\$4 or saddle) with (probe or coil or antenna or winding) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable))	7
<input type="checkbox"/>	L33	L32 and ((automatic\$4 or automat\$3) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous))	471

<input type="checkbox"/>	L32	L31 and ((exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable)with (plug or socket\$4))	1357
<input type="checkbox"/>	L31	L30 and (plug or socket\$4)	5494
<input type="checkbox"/>	L30	L29 and (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable)	42636
<input type="checkbox"/>	L29	L28 and (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous)	43338
<input type="checkbox"/>	L28	L1 and (automatic\$4 or automat\$3)	44135
<input type="checkbox"/>	L27	L23 and ((solenoid\$4 or saddle) with (probe or coil or antenna or winding) with (head) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4))	2
<input type="checkbox"/>	L26	L25 and (((magnetic adj resonan\$2) or MRI or NMR) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous))	5
<input type="checkbox"/>	L25	L24 and (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous)	7
<input type="checkbox"/>	L24	L23 and ((solenoid\$4 or saddle) with (probe or coil or antenna or winding) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4))	7
<input type="checkbox"/>	L23	L17 and ((exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4) with (plug or socket\$4))	103
<input type="checkbox"/>	L22	L21 and (plug or socket\$4)	17
<input type="checkbox"/>	L21	L20 and (plug or socket\$4 or connect\$4)	81
<input type="checkbox"/>	L20	L19 and ((solenoid\$4 or saddle) with (probe or coil or antenna or winding) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4))	84
<input type="checkbox"/>	L19	L18 and (solenoid\$4 or saddle)	477
<input type="checkbox"/>	L18	L17 and ((probe or coil or antenna or winding) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4))	1891
<input type="checkbox"/>	L17	L16 and (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4)	2916
<input type="checkbox"/>	L16	L3 and ((probe or coil or antenna or winding) with (head))	3134

☐	L15	L14 not L12	12
☐	L14	L13 and ((solenoid\$4 or saddle) with (detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or individual\$2 or disconnect\$4))	38
☐	L13	L6 and ((plug or socket\$4 or connect\$4) with (detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or individual\$2 or disconnect\$4))	413
☐	L12	L11 and ((plug or socket\$4 or connect\$4) with (detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or individual\$2 or disconnect\$4))	26
☐	L11	L10 and ((solenoid\$4 or saddle) with (detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or individual\$2 or disconnect\$4))	50
☐	L10	L9 and (detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or individual\$2 or disconnect\$4)	439
☐	L9	L7 and (plug or socket\$4 or connect\$4)	444
☐	L8	L7 and (plug or socket\$4 or connect\$4)	444
☐	L7	L6 and ((feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4) with (cable or channel\$3 or "line"))	448
☐	L6	L5 and (sample or tissue or subject or object or patient or substance or target or specim\$2)	992
☐	L5	L4 and (solenoid\$4 or saddle)	1005
☐	L4	L3 and (convey\$4 or ((production or assembly) with (belt or "line")))	9645
☐	L3	L2 and (feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4 or cable or channel\$3 or "line")	57335
☐	L2	L1 and (probe or coil or antenna or winding)	68633
☐	L1	((magnetic adj resonan\$2) or MRI or NMR)	249862

END OF SEARCH HISTORY

Hit List

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Search Results - Record(s) 1 through 15 of 15 returned.

☐ 1. Document ID: US 20070016003 A1

L75: Entry 1 of 15

File: PGPB

Jan 18, 2007

PGPUB-DOCUMENT-NUMBER: 20070016003

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070016003 A1

TITLE: Open architecture imaging apparatus and coil system for magnetic resonance imaging

PUBLICATION-DATE: January 18, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Piron; Cameron Anthony	Toronto		CA
Luginbuhl; Christopher Alexander	Toronto		CA
Plewes; Donald B.	Toronto		CA

US-CL-CURRENT: 600/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMMC	Drawings
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☐ 2. Document ID: US 20060119360 A1

L75: Entry 2 of 15

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060119360

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060119360 A1

TITLE: NMR spectrometer and NMR probe

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yamamoto; Hiroyuki	Kokubunji		JP
Saitoh; Kazuo	Kodaira		JP
Hasegawa; Haruhiro	Kokubunji		JP
Ochi; Hisaaki	Kodaira		JP

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Drawings
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☐ 3. Document ID: US 20060119359 A1

L75: Entry 3 of 15

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060119359

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060119359 A1

TITLE: Nuclear magnetic resonance probe coil

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hasegawa; Haruhiro	Kokubunji		JP
Ochi; Hisaaki	Kodaira		JP
Yamamoto; Hiroyuki	Kokubunji		JP
Saitoh; Kazuo	Kodaira		JP

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Drawings
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☐ 4. Document ID: US 20060012368 A1

L75: Entry 4 of 15

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volke; Frank	St. Ingbert		DE
Benecke; Martin	Homberg		DE

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Drawings
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☐ 5. Document ID: US 20050171427 A1

L75: Entry 5 of 15

File: PGPB

Aug 4, 2005

PGPUB-DOCUMENT-NUMBER: 20050171427
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050171427 A1

TITLE: Endoscopic examining apparatus particularly useful in MRI, a probe useful in such apparatus, and a method of making such probe

PUBLICATION-DATE: August 4, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nevo, Erez	Natanya		IL
Roth, Abraham	Kfar Hassidim		IL

US-CL-CURRENT: 600/424; 600/117

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RPMC	Drawings
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☐ 6. Document ID: US 20050098718 A1

L75: Entry 6 of 15

File: PGPB

May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050098718
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050098718 A1

TITLE: Apparatus and method for ion cyclotron resonance mass spectrometry

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
O'Connor, Peter B	Hyde Park	MA	US

US-CL-CURRENT: 250/286

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RPMC	Drawings
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☐ 7. Document ID: US 20030187347 A1

L75: Entry 7 of 15

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187347
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030187347 A1

TITLE: Endoscopic examining apparatus particularly useful in MRI, a probe useful in

such apparatus, and a method of making such probe

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nevo, Erez	Natanya		IL
Roth, Abraham	Kfar Hassidim		IL

US-CL-CURRENT: 600/424

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMO	Draw D
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8. Document ID: US 20030127592 A1

L75: Entry 8 of 15

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030127592

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030127592 A1

TITLE: Apparatus and method for ion cyclotron resonance mass spectrometry

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
O'Connor, Peter B.	Hyde Park	MA	US

US-CL-CURRENT: 250/291

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMO	Draw D
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9. Document ID: US 7164269 B2

L75: Entry 9 of 15

File: USPT

Jan 16, 2007

US-PAT-NO: 7164269

DOCUMENT-IDENTIFIER: US 7164269 B2

TITLE: Nuclear magnetic resonance probe coil

DATE-ISSUED: January 16, 2007

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20060119359 A1	June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Hasegawa; Haruhiro	Kokubunji	JP
Ochi; Hisaaki	Kodaira	JP
Yamamoto; Hiroyuki	Kokubunji	JP
Saitoh; Kazuo	Kodaira	JP

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D
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☐ 10. Document ID: US 7138801 B2

L75: Entry 10 of 15

File: USPT

Nov 21, 2006

US-PAT-NO: 7138801

DOCUMENT-IDENTIFIER: US 7138801 B2

TITLE: NMR spectrometer and NMR probe

DATE-ISSUED: November 21, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060119360 A1

June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamamoto; Hiroyuki	Kokubunji			JP
Saitoh; Kazuo	Kodaira			JP
Hasegawa; Haruhiro	Kokubunji			JP
Ochi; Hisaaki	Kodaira			JP

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D
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☐ 11. Document ID: US 6720555 B2

L75: Entry 11 of 15

File: USPT

Apr 13, 2004

US-PAT-NO: 6720555

DOCUMENT-IDENTIFIER: US 6720555 B2

TITLE: Apparatus and method for ion cyclotron resonance mass spectrometry

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Connor; Peter B.	Hyde Park	MA		

US-CL-CURRENT: 250/291

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 12. Document ID: US 6329139 B1

L75: Entry 12 of 15

File: USPT

Dec 11, 2001

US-PAT-NO: 6329139

DOCUMENT-IDENTIFIER: US 6329139 B1

TITLE: Automated sorting system for matrices with memory

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Nova; Michael P.	Rancho Santa Fe	CA			
Lillig; John E.	Alamo	CA			
Karunaratne; Kanchana Sanjaya Gunsekera	San Diego	CA			
Ewing; William	San Diego	CA			
Satoda; Yozo	San Diego	CA			
Potash; Hanan	Austin	TX			

US-CL-CURRENT: 435/6; 209/597, 209/604, 702/19, 702/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 13. Document ID: US 6136274 A

L75: Entry 13 of 15

File: USPT

Oct 24, 2000

US-PAT-NO: 6136274

DOCUMENT-IDENTIFIER: US 6136274 A

TITLE: Matrices with memories in automated drug discovery and units therefor

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Nova; Michael P.	Rancho Santa Fe	CA			
Lillig; John E.	Poway	CA			
Karunaratne; Kanchana Sanjaya Gunsekera	San Diego	CA			
O'Neil; Donald	San Diego	CA			
Ewing; William	San Diego	CA			
Satoda; Yozo	San Diego	CA			

US-CL-CURRENT: 422/102; 422/101, 422/104, 435/288.4, 435/288.5, 435/297.1,

435/303.1, 435/305.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 14. Document ID: US 3564400 A

L75: Entry 14 of 15

File: USOC

Feb 16, 1971

US-PAT-NO: 3564400

DOCUMENT-IDENTIFIER: US 3564400 A

TITLE: NUCLEAR MAGNETIC RESONANCE FLOWMETER EMPLOYING CERAMIC TUBE

DATE-ISSUED: February 16, 1971

INVENTOR-NAME: HEYDEN WILLIAM H VANDER; PIKE RONALD L ; TOSCHIK JOHN F

US-CL-CURRENT: 324/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 15. Document ID: US 2973471 A

L75: Entry 15 of 15

File: USOC

Feb 28, 1961

US-PAT-NO: 2973471

DOCUMENT-IDENTIFIER: US 2973471 A

TITLE: Analysis techniques based on nuclear magnetic resonance

DATE-ISSUED: February 28, 1961

INVENTOR-NAME: ARMISTEAD FONTAINE C; TIRICO ARTHUR L

US-CL-CURRENT: 324/303, 175/393, 175/404, 175/405.1, 175/50, 73/152.03, 73/152.11

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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Bkwd Refs

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Term	Documents
SADDLE	74647
SADDLES	14752
COIL	1335416
COILS	442907
WINDING	734474

WINDINGS	248216
PROBE	404073
PROBES	190023
ANTENNA	405744
ANTENNAS	97763
TRANSVERSE	1304002
(L74 AND (((SOLENOID\$4 OR SADDLE) WITH (COIL OR WINDING OR PROBE OR ANTENNA)) SAME (PERPENDICULAR\$3 OR TRANSVERSE OR ORTHOGONAL\$4))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	15

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Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20060119360 A1

L76: Entry 1 of 9

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060119360

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060119360 A1

TITLE: NMR spectrometer and NMR probe

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yamamoto; Hiroyuki	Kokubunji		JP
Saitoh; Kazuo	Kodaira		JP
Hasegawa; Haruhiro	Kokubunji		JP
Ochi; Hisaaki	Kodaira		JP

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	ROMC	Draw D
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☐ 2. Document ID: US 20060119359 A1

L76: Entry 2 of 9

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060119359

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060119359 A1

TITLE: Nuclear magnetic resonance probe coil

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hasegawa; Haruhiro	Kokubunji		JP
Ochi; Hisaaki	Kodaira		JP
Yamamoto; Hiroyuki	Kokubunji		JP
Saitoh; Kazuo	Kodaira		JP

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 3. Document ID: US 20060012368 A1

L76: Entry 3 of 9

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volke; Frank	St. Ingbert		DE
Benecke; Martin	Homberg		DE

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 4. Document ID: US 7164269 B2

L76: Entry 4 of 9

File: USPT

Jan 16, 2007

US-PAT-NO: 7164269

DOCUMENT-IDENTIFIER: US 7164269 B2

TITLE: Nuclear magnetic resonance probe coil

DATE-ISSUED: January 16, 2007

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20060119359 A1.	June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hasegawa; Haruhiro	Kokubunji			JP
Ochi; Hisaaki	Kodaira			JP
Yamamoto; Hiroyuki	Kokubunji			JP
Saitoh; Kazuo	Kodaira			JP

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INOC	Draw D
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☐ 5. Document ID: US 7138801 B2

L76: Entry 5 of 9

File: USPT

Nov 21, 2006

US-PAT-NO: 7138801

DOCUMENT-IDENTIFIER: US 7138801 B2

TITLE: NMR spectrometer and NMR probe

DATE-ISSUED: November 21, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060119360 A1

June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamamoto; Hiroyuki	Kokubunji			JP
Saitoh; Kazuo	Kodaira			JP
Hasegawa; Haruhiro	Kokubunji			JP
Ochi; Hisaaki	Kodaira			JP

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INOC	Draw D
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☐ 6. Document ID: US 6329139 B1

L76: Entry 6 of 9

File: USPT

Dec 11, 2001

US-PAT-NO: 6329139

DOCUMENT-IDENTIFIER: US 6329139 B1

TITLE: Automated sorting system for matrices with memory

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nova; Michael P.	Rancho Santa Fe	CA		
Lillig; John E.	Alamo	CA		
Karunaratne; Kanchana Sanjaya Gunsekera	San Diego	CA		
Ewing; William	San Diego	CA		
Satoda; Yozo	San Diego	CA		
Potash; Hanan	Austin	TX		

US-CL-CURRENT: 435/6; 209/597, 209/604, 702/19, 702/20

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 7. Document ID: US 6136274 A

L76: Entry 7 of 9

File: USPT

Oct 24, 2000

US-PAT-NO: 6136274

DOCUMENT-IDENTIFIER: US 6136274 A

TITLE: Matrices with memories in automated drug discovery and units therefor

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nova; Michael P.	Rancho Santa Fe	CA		
Lillig; John E.	Poway	CA		
Karunaratne; Kanchana Sanjaya Gunasekera	San Diego	CA		
O'Neil; Donald	San Diego	CA		
Ewing; William	San Diego	CA		
Satoda; Yozo	San Diego	CA		

US-CL-CURRENT: 422/102; 422/101, 422/104, 435/288.4, 435/288.5, 435/297.1,
435/303.1, 435/305.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 8. Document ID: US 3564400 A

L76: Entry 8 of 9

File: USOC

Feb 16, 1971

US-PAT-NO: 3564400

DOCUMENT-IDENTIFIER: US 3564400 A

TITLE: NUCLEAR MAGNETIC RESONANCE FLOWMETER EMPLOYING CERAMIC TUBE

DATE-ISSUED: February 16, 1971

INVENTOR-NAME: HEYDEN WILLIAM H VANDER; PIKE RONALD L ; TOSCHIK JOHN F

US-CL-CURRENT: 324/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 9. Document ID: US 2973471 A

L76: Entry 9 of 9

File: USOC

Feb 28, 1961

US-PAT-NO: 2973471

DOCUMENT-IDENTIFIER: US 2973471 A

TITLE: Analysis techniques based on nuclear magnetic resonance.

DATE-ISSUED: February 28, 1961

INVENTOR-NAME: ARMISTEAD FONTAINE C; TIRICO ARTHUR L

US-CL-CURRENT: 324/303, 175/393, 175/404, 175/405.1, 175/50, 73/152.03, 73/152.11

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw D
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Term	Documents
SADDLE	74647
SADDLES	14752
FED	1634209
FEDS	2403
CABLE	1018377
CABLES	366413
LINE	5766757
LINES	2842675
SOLENOID\$4	0
SOLENOID	362126
SOLENOIDA	30
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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20060119359 A1

L77: Entry 1 of 6

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060119359

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060119359 A1

TITLE: Nuclear magnetic resonance probe coil

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hasegawa; Haruhiro	Kokubunji		JP
Ochi; Hisaaki	Kodaira		JP
Yamamoto; Hiroyuki	Kokubunji		JP
Saitoh; Kazuo	Kodaira		JP

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Drawings
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☐ 2. Document ID: US 20060012368 A1

L77: Entry 2 of 6

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volke; Frank	St. Ingbert		DE
Benecke; Martin	Homburg		DE

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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3. Document ID: US 7164269 B2

L77: Entry 3 of 6

File: USPT

Jan 16, 2007

US-PAT-NO: 7164269

DOCUMENT-IDENTIFIER: US 7164269 B2

TITLE: Nuclear magnetic resonance probe coil

DATE-ISSUED: January 16, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060119359 A1

June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hasegawa; Haruhiro	Kokubunji			JP
Ochi; Hisaaki	Kodaira			JP
Yamamoto; Hiroyuki	Kokubunji			JP
Saitoh; Kazuo	Kodaira			JP

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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4. Document ID: US 6329139 B1

L77: Entry 4 of 6

File: USPT

Dec 11, 2001

US-PAT-NO: 6329139

DOCUMENT-IDENTIFIER: US 6329139 B1

TITLE: Automated sorting system for matrices with memory

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nova; Michael P.	Rancho Santa Fe	CA		
Lillig; John E.	Alamo	CA		
Karunaratne; Kanchana Sanjaya Gunsekera	San Diego	CA		
Ewing; William	San Diego	CA		
Satoda; Yozo	San Diego	CA		
Potash; Hanan	Austin	TX		

US-CL-CURRENT: 435/6, 209/597, 209/604, 702/19, 702/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMIC	Draw D
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☐ 5. Document ID: US 6136274 A

L77: Entry 5 of 6

File: USPT

Oct 24, 2000

US-PAT-NO: 6136274

DOCUMENT-IDENTIFIER: US 6136274 A

TITLE: Matrices with memories in automated drug discovery and units therefor

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Nova; Michael P.	Rancho Santa Fe	CA			
Lillig; John E.	Poway	CA			
Karunaratne; Kanchana Sanjaya Gunsekera	San Diego	CA			
O'Neil; Donald	San Diego	CA			
Ewing; William	San Diego	CA			
Satoda; Yozo	San Diego	CA			

US-CL-CURRENT: 422/102, 422/101, 422/104, 435/288.4, 435/288.5, 435/297.1,
435/303.1, 435/305.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMIC	Draw D
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☐ 6. Document ID: US 2973471 A

L77: Entry 6 of 6

File: USOC

Feb 28, 1961

US-PAT-NO: 2973471

DOCUMENT-IDENTIFIER: US 2973471 A

TITLE: Analysis techniques based on nuclear magnetic resonance

DATE-ISSUED: February 28, 1961

INVENTOR-NAME: ARMISTEAD FONTAINE C; TIRICO ARTHUR L

US-CL-CURRENT: 324/303, 175/393, 175/404, 175/405.1, 175/50, 73/152.03, 73/152.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMIC	Draw D
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Term	Documents
TRANSPORTATION	275177
TRANSPORTATIONS	539
MOVING	2605119
MOVINGS	111
MOVED	2549049
MOVEDS	7
MOVABLE	1891795
MOVABLES	84
MOVE	2774991
MOVES	1674528
BRINGING	391929
(L76 AND ((CONVEY\$4 OR TRASPORT\$4 OR TRANSPORTATION OR MOVING OR MOVED OR MOVABLE OR MOVE OR BRINGING OR BROUGHT OR BRING OR DRIV\$4 OR INJECT\$4 OR INSERT\$4 ((PRODUCTION OR ASSEMBLY) SAME (BELT OR "LINE"))) WITH (SAMPLE OR TISSUE OR SUBJECT OR OBJECT OR PATIENT OR SUBSTANCE OR TARGET OR SPECIM\$2 OR SOLID\$3 OR LIQUID OR GAS\$2 OR GASEOUS))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6

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☐ 1. Document ID: US 20060012368 A1

L78: Entry 1 of 1

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volke; Frank	St. Ingbert		DE
Benecke; Martin	Homburg		DE

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw D
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Term	Documents
SADDLE	74647
SADDLES	14752
FED	1634209
FEDS	2403
CABLE	1018377
CABLES	366413
LINE	5766757
LINES	2842675
TRANSPORTATION	275177
TRANSPORTATIONS	539
MOVING	2605119

(L77 AND (((SOLENOID\$4 OR SADDLE) SAME ((FEED\$3 OR FED OR SUPPL\$4 OR INPUT\$4 OR IN-PUT\$4 OR INSERT\$4) WITH (CABLE OR CHANNEL\$3 OR "LINE" OR TUB\$3))) SAME ((CONVEY\$4 OR TRASPORT\$4 OR TRANSPORTATION OR MOVING OR MOVED OR MOVABLE OR MOVE OR BRINGING OR BROUGHT OR BRING OR DRIV\$4 OR INJECT\$4 OR INSERT\$4 ((PRODUCTION OR ASSEMBLY) SAME (BELT OR "LINE")))) WITH (SAMPLE OR TISSUE OR SUBJECT OR OBJECT OR PATIENT OR SUBSTANCE OR TARGET OR SPECIM\$2 OR SOLID\$3 OR LIQUID OR GAS\$2 OR GASEOUS)))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20070016003 A1

L79: Entry 1 of 6

File: PGPB

Jan 18, 2007

PGPUB-DOCUMENT-NUMBER: 20070016003

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070016003 A1

TITLE: Open architecture imaging apparatus and coil system for magnetic resonance imaging

PUBLICATION-DATE: January 18, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Piron; Cameron Anthony	Toronto		CA
Luginbuhl; Christopher Alexander	Toronto		CA
Plewes; Donald B.	Toronto		CA

US-CL-CURRENT: 600/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Drawings
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☐ 2. Document ID: US 20060012368 A1

L79: Entry 2 of 6

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volke; Frank	St. Ingbert		DE
Benecke; Martin	Homberg		DE

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20050171427 A1

L79: Entry 3 of 6

File: PGPB

Aug 4, 2005

PGPUB-DOCUMENT-NUMBER: 20050171427
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050171427 A1

TITLE: Endoscopic examining apparatus particularly useful in MRI, a probe useful in such apparatus, and a method of making such probe

PUBLICATION-DATE: August 4, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nevo, Erez	Natanya		IL
Roth, Abraham	Kfar Hassidim		IL

US-CL-CURRENT: 600/424; 600/117

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 20030187347 A1

L79: Entry 4 of 6

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187347
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030187347 A1

TITLE: Endoscopic examining apparatus particularly useful in MRI, a probe useful in such apparatus, and a method of making such probe

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nevo, Erez	Natanya		IL
Roth, Abraham	Kfar Hassidim		IL

US-CL-CURRENT: 600/424

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 6329139 B1

L79: Entry 5 of 6

File: USPT

Dec 11, 2001

US-PAT-NO: 6329139

DOCUMENT-IDENTIFIER: US 6329139 B1

TITLE: Automated sorting system for matrices with memory

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nova; Michael P.	Rancho Santa Fe	CA		
Lillig; John E.	Alamo	CA		
Karunaratne; Kanchana Sanjaya Gunsekera	San Diego	CA		
Ewing; William	San Diego	CA		
Satoda; Yozo	San Diego	CA		
Potash; Hanan	Austin	TX		

US-CL-CURRENT: 435/6, 209/597, 209/604, 702/19, 702/20

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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6. Document ID: US 2973471 A

L79: Entry 6 of 6

File: USOC

Feb 28, 1961

US-PAT-NO: 2973471

DOCUMENT-IDENTIFIER: US 2973471 A

TITLE: Analysis techniques based on nuclear magnetic resonance

DATE-ISSUED: February 28, 1961

INVENTOR-NAME: ARMISTEAD FONTAINE C; TIRICO ARTHUR L

US-CL-CURRENT: 324/303, 175/393, 175/404, 175/405.1, 175/50, 73/152.03, 73/152.11

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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Term	Documents
PLUG	766451
PLUGS	193539
STOPPER	255358
STOPPERS	44610
SOCKET\$4	0
SOCKET	491192

SOCKETA	98
SOCKETAAND	1
SOCKETABL	1
SOCKETABLE	80
SOCKETABLI	1
(L75 AND (PLUG OR SOCKET\$4 OR STOPPER)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20070016003 A1

L80: Entry 1 of 2

File: PGPB

Jan 18, 2007

PGPUB-DOCUMENT-NUMBER: 20070016003

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070016003 A1

TITLE: Open architecture imaging apparatus and coil system for magnetic resonance imaging

PUBLICATION-DATE: January 18, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Piron; Cameron Anthony	Toronto		CA
Luginbuhl; Christopher Alexander	Toronto		CA
Plewes; Donald B.	Toronto		CA

US-CL-CURRENT: 600/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	R00C	Drawings
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☐ 2. Document ID: US 20060012368 A1

L80: Entry 2 of 2

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volke; Frank	St. Ingbert		DE
Benecke; Martin	Homberg		DE

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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Term	Documents
TRANSPORTATION	275177
TRANSPORTATIONS	539
MOVING	2605119
MOVINGS	111
MOVED	2549049
MOVEDS	7
MOVABLE	1891795
MOVABLES	84
MOVE	2774991
MOVES	1674528
BRINGING	391929
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Search Results - Record(s) 1 through 15 of 15 returned.

☐ 1. Document ID: US 20060186886 A1

L82: Entry 1 of 15

File: PGPB

Aug 24, 2006

PGPUB-DOCUMENT-NUMBER: 20060186886

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060186886 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: August 24, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada; Michiya	Mito		JP
Wakuda; Tsuyoshi	Hitachi		JP
Kakugawa; Shigeru	Hitachi		JP
Morita; Hiroshi	Hitachi		JP
Aihara; Katsuzo	Hitachiota		JP

US-CL-CURRENT: [324/321](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20060012368 A1

L82: Entry 2 of 15

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volke; Frank	St. Ingbert		DE
Benecke; Martin	Homburg		DE

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 3. Document ID: US 20050189944 A1

L82: Entry 3 of 15

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050189944

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050189944 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada, Michiya	Mito		JP
Wakuda, Tsuyoshi	Hitachi		JP
Kakugawa, Shigeru	Hitachi		JP
Morita, Hiroshi	Hitachi		JP
Aihara, Katsuzo	Hitachiota		JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 4. Document ID: US 20050122114 A1

L82: Entry 4 of 15

File: PGPB

Jun 9, 2005

PGPUB-DOCUMENT-NUMBER: 20050122114

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050122114 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada, Michiya	Mito		JP
Wakuda, Tsuyoshi	Hitachi		JP
Kakugawa, Shigeru	Hitachi		JP
Morita, Hiroshi	Hitachi		JP
Aihara, Katsuzo	Hitachiota		JP

US-CL-CURRENT: 324/321; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 5. Document ID: US 20030076104 A1

L82: Entry 5 of 15

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076104

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030076104 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada, Michiya	Mito		JP
Wakuda, Tsuyoshi	Hitachi		JP
Kakugawa, Shigeru	Hitachi		JP
Morita, Hiroshi	Hitachi		JP
Aihara, Katsuzo	Hitachiota		JP

US-CL-CURRENT: 324/321; 324/312, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 6. Document ID: US 20030076103 A1

L82: Entry 6 of 15

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076103

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030076103 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada, Michiya	Mito		JP
Wakuda, Tsuyoshi	Hitachi		JP
Kakugawa, Shigeru	Hitachi		JP
Morita, Hiroshi	Hitachi		JP
Aihara, Katsuzo	Hitachiota		JP

US-CL-CURRENT: 324/321; 324/307, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 7. Document ID: US 7190167 B2

L82: Entry 7 of 15

File: USPT

Mar 13, 2007

US-PAT-NO: 7190167

DOCUMENT-IDENTIFIER: US 7190167 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: March 13, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060186886 A1

August 24, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	COMM	Draw D
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☐ 8. Document ID: US 7187173 B1

L82: Entry 8 of 15

File: USPT

Mar 6, 2007

US-PAT-NO: 7187173

DOCUMENT-IDENTIFIER: US 7187173 B1

TITLE: Multi-coil NMR probe with nonmagnetic diodes

DATE-ISSUED: March 6, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Raftery; Daniel	West Lafayette	IN		US
Santini; Robert E.	West Lafayette	IN		US
Macnaughtan; Megan A.	Athens	GA		US

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	COMM	Draw D
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☐ 9. Document ID: US 7046007 B2

L82: Entry 9 of 15

File: USPT

May 16, 2006

US-PAT-NO: 7046007

DOCUMENT-IDENTIFIER: US 7046007 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 16, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050122114 A1

June 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EXCISE	Draw D
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☐ 10. Document ID: US 7026817 B2

L82: Entry 10 of 15

File: USPT

Apr 11, 2006

US-PAT-NO: 7026817

DOCUMENT-IDENTIFIER: US 7026817 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: April 11, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050189944 A1

September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw De
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☐ 11. Document ID: US 6897657 B2

L82: Entry 11 of 15

File: USPT

May 24, 2005

US-PAT-NO: 6897657

DOCUMENT-IDENTIFIER: US 6897657 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw De
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☐ 12. Document ID: US 6888352 B2

L82: Entry 12 of 15

File: USPT

May 3, 2005

US-PAT-NO: 6888352

DOCUMENT-IDENTIFIER: US 6888352 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw De
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☐ 13. Document ID: US 6320384 B1

L82: Entry 13 of 15

File: USPT

Nov 20, 2001

US-PAT-NO: 6320384

DOCUMENT-IDENTIFIER: US 6320384 B1

TITLE: Thermal buffering of cross-coils in high-power NMR decoupling

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; David F.	Columbia	SC	29229-4339	
Entzminger, Jr.; George	Columbia	SC	29223	

US-CL-CURRENT: 324/321; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw D
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☐ 14. Document ID: US 6130537 A

L82: Entry 14 of 15

File: USPT

Oct 10, 2000

US-PAT-NO: 6130537

DOCUMENT-IDENTIFIER: US 6130537 A

TITLE: HR MAS NMR coils with magic angle capacitors

DATE-ISSUED: October 10, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F David	Columbia	SC		
Yang; Yungan	Columbia	SC		

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw D
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☐ 15. Document ID: US 4556848 A

L82: Entry 15 of 15

File: USPT

Dec 3, 1985

US-PAT-NO: 4556848

DOCUMENT-IDENTIFIER: US 4556848 A

TITLE: Point sensitive NMR imaging system using a magnetic field configuration with a spatial minimum

DATE-ISSUED: December 3, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eberhard; Philippe H.	El Cerrito	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INOC	Draw D
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Term	Documents
SADDLE	74647
SADDLES	14752
FED	1634209
FEDS	2403
CABLE	1018377
CABLES	366413
LINE	5766757
LINES	2842675
TRANSPORTATION	275177
TRANSPORTATIONS	539
MOVING	2605119
(L81 AND (((SOLENOID\$4 OR SADDLE) SAME ((FEED\$3 OR FED OR SUPPL\$4 OR INPUT\$4 OR IN-PUT\$4 OR INSERT\$4) WITH (CABLE OR CHANNEL\$3 OR "LINE" OR TUB\$3))) SAME ((CONVEY\$4 OR TRASPORT\$4 OR TRANSPORTATION OR MOVING OR MOVED OR MOVABLE OR MOVE OR BRINGING OR BROUGHT OR BRING OR DRIV\$4 OR INJECT\$4 OR INSERT\$4 ((PRODUCTION OR ASSEMBLY) SAME (BELT OR "LINE")))) WITH (SAMPLE OR TISSUE OR SUBJECT OR OBJECT OR PATIENT OR SUBSTANCE OR TARGET OR SPECIM\$2 OR SOLID\$3 OR LIQUID OR GAS\$2 OR GASEOUS)))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	15

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Search Results - Record(s) 1 through 12 of 12 returned.

☐ 1. Document ID: US 20060186886 A1

L83: Entry 1 of 12

File: PGPB

Aug 24, 2006

PGPUB-DOCUMENT-NUMBER: 20060186886

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060186886 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: August 24, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada; Michiya	Mito		JP
Wakuda; Tsuyoshi	Hitachi		JP
Kakugawa; Shigeru	Hitachi		JP
Morita; Hiroshi	Hitachi		JP
Aihara; Katsuzo	Hitachiota		JP

US-CL-CURRENT: [324/321](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 2. Document ID: US 20060012368 A1

L83: Entry 2 of 12

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volke; Frank	St. Ingbert		DE
Benecke; Martin	Homburg		DE

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw De
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☐ 3. Document ID: US 20050189944 A1

L83: Entry 3 of 12

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050189944

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050189944 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada, Michiya	Mito		JP
Wakuda, Tsuyoshi	Hitachi		JP
Kakugawa, Shigeru	Hitachi		JP
Morita, Hiroshi	Hitachi		JP
Aihara, Katsuzo	Hitachiota		JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw De
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☐ 4. Document ID: US 20050122114 A1

L83: Entry 4 of 12

File: PGPB

Jun 9, 2005

PGPUB-DOCUMENT-NUMBER: 20050122114

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050122114 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada, Michiya	Mito		JP
Wakuda, Tsuyoshi	Hitachi		JP
Kakugawa, Shigeru	Hitachi		JP
Morita, Hiroshi	Hitachi		JP
Aihara, Katsuzo	Hitachiota		JP

US-CL-CURRENT: 324/321; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 5. Document ID: US 7190167 B2

L83: Entry 5 of 12

File: USPT

Mar 13, 2007

US-PAT-NO: 7190167

DOCUMENT-IDENTIFIER: US 7190167 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: March 13, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060186886 A1

August 24, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 6. Document ID: US 7187173 B1

L83: Entry 6 of 12

File: USPT

Mar 6, 2007

US-PAT-NO: 7187173

DOCUMENT-IDENTIFIER: US 7187173 B1

TITLE: Multi-coil NMR probe with nonmagnetic diodes

DATE-ISSUED: March 6, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Raftery; Daniel	West Lafayette	IN		US
Santini; Robert E.	West Lafayette	IN		US
Macnaughtan; Megan A.	Athens	GA		US

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 7. Document ID: US 7046007 B2

L83: Entry 7 of 12

File: USPT

May 16, 2006

US-PAT-NO: 7046007

DOCUMENT-IDENTIFIER: US 7046007 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 16, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050122114 A1

June 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INOC	Draw D
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☐ 8. Document ID: US 7026817 B2

L83: Entry 8 of 12

File: USPT

Apr 11, 2006

US-PAT-NO: 7026817

DOCUMENT-IDENTIFIER: US 7026817 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: April 11, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050189944 A1

September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP

Aihara; Katsuzo

Hitachiota

JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D
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☐ 9. Document ID: US 6897657 B2

L83: Entry 9 of 12

File: USPT

May 24, 2005

US-PAT-NO: 6897657

DOCUMENT-IDENTIFIER: US 6897657 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D
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☐ 10. Document ID: US 6888352 B2

L83: Entry 10 of 12

File: USPT

May 3, 2005

US-PAT-NO: 6888352

DOCUMENT-IDENTIFIER: US 6888352 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 11. Document ID: US 6320384 B1

L83: Entry 11 of 12

File: USPT

Nov 20, 2001

US-PAT-NO: 6320384

DOCUMENT-IDENTIFIER: US 6320384 B1

TITLE: Thermal buffering of cross-coils in high-power NMR decoupling

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; David F.	Columbia	SC	29229-4339	
Entzminger, Jr.; George	Columbia	SC	29223	

US-CL-CURRENT: 324/321; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 12. Document ID: US 6130537 A

L83: Entry 12 of 12

File: USPT

Oct 10, 2000

US-PAT-NO: 6130537

DOCUMENT-IDENTIFIER: US 6130537 A

TITLE: HR MAS NMR coils with magic angle capacitors

DATE-ISSUED: October 10, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F David	Columbia	SC		
Yang; Yungan	Columbia	SC		

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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Term	Documents
SADDLE	74647

SADDLES	14752
COIL	1335416
COILS	442907
WINDING	734474
WINDINGS	248216
PROBE	404073
PROBES	190023
ANTENNA	405744
ANTENNAS	97763
TRANSVERSE	1304002
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☐ 1. Document ID: US 20060186886 A1

L84: Entry 1 of 11

File: PGPB

Aug 24, 2006

PGPUB-DOCUMENT-NUMBER: 20060186886

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060186886 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: August 24, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada; Michiya	Mito		JP
Wakuda; Tsuyoshi	Hitachi		JP
Kakugawa; Shigeru	Hitachi		JP
Morita; Hiroshi	Hitachi		JP
Aihara; Katsuzo	Hitachiota		JP

US-CL-CURRENT: [324/321](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw D
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☐ 2. Document ID: US 20060012368 A1

L84: Entry 2 of 11

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volke; Frank	St. Ingbert		DE
Benecke; Martin	Homberg		DE

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw D
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☐ 3. Document ID: US 20050189944 A1

L84: Entry 3 of 11

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050189944

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050189944 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada, Michiya	Mito		JP
Wakuda, Tsuyoshi	Hitachi		JP
Kakugawa, Shigeru	Hitachi		JP
Morita, Hiroshi	Hitachi		JP
Aihara, Katsuzo	Hitachiota		JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw D
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☐ 4. Document ID: US 20050122114 A1

L84: Entry 4 of 11

File: PGPB

Jun 9, 2005

PGPUB-DOCUMENT-NUMBER: 20050122114

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050122114 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada, Michiya	Mito		JP
Wakuda, Tsuyoshi	Hitachi		JP
Kakugawa, Shigeru	Hitachi		JP
Morita, Hiroshi	Hitachi		JP
Aihara, Katsuzo	Hitachiota		JP

US-CL-CURRENT: 324/321; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw D
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☐ 5. Document ID: US 7190167 B2

L84: Entry 5 of 11

File: USPT

Mar 13, 2007

US-PAT-NO: 7190167

DOCUMENT-IDENTIFIER: US 7190167 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: March 13, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060186886 A1

August 24, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw D
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☐ 6. Document ID: US 7187173 B1

L84: Entry 6 of 11

File: USPT

Mar 6, 2007

US-PAT-NO: 7187173

DOCUMENT-IDENTIFIER: US 7187173 B1

TITLE: Multi-coil NMR probe with nonmagnetic diodes

DATE-ISSUED: March 6, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Raftery; Daniel	West Lafayette	IN		US
Santini; Robert E.	West Lafayette	IN		US
Macnaughtan; Megan A.	Athens	GA		US

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw D
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☐ 7. Document ID: US 7046007 B2

L84: Entry 7 of 11

File: USPT

May 16, 2006

US-PAT-NO: 7046007

DOCUMENT-IDENTIFIER: US 7046007 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 16, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050122114 A1

June 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INMC	Draw. De
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☐ 8. Document ID: US 7026817 B2

L84: Entry 8 of 11

File: USPT

Apr 11, 2006

US-PAT-NO: 7026817

DOCUMENT-IDENTIFIER: US 7026817 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: April 11, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050189944 A1

September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP

Aihara; Katsuzo

Hitachiota

JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MOIC	Draw D
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☐ 9. Document ID: US 6897657 B2

L84: Entry 9 of 11

File: USPT

May 24, 2005

US-PAT-NO: 6897657

DOCUMENT-IDENTIFIER: US 6897657 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MOIC	Draw D
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☐ 10. Document ID: US 6888352 B2

L84: Entry 10 of 11

File: USPT

May 3, 2005

US-PAT-NO: 6888352

DOCUMENT-IDENTIFIER: US 6888352 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JP
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 11. Document ID: US 6320384 B1

L84: Entry 11 of 11

File: USPT

Nov 20, 2001

US-PAT-NO: 6320384

DOCUMENT-IDENTIFIER: US 6320384 B1

TITLE: Thermal buffering of cross-coils in high-power NMR decoupling

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; David F.	Columbia	SC	29229-4339	
Entzminger, Jr.; George	Columbia	SC	29223	

US-CL-CURRENT: 324/321; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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SPACES	570265
ENTRANCE	350521
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☐ 1. Document ID: US 20060012368 A1

L85: Entry 1 of 1

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Volke; Frank	St. Ingbert		DE
Benecke; Martin	Homberg		DE

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMC	Drawings
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